

FIG. 1A
(PRIOR ART)

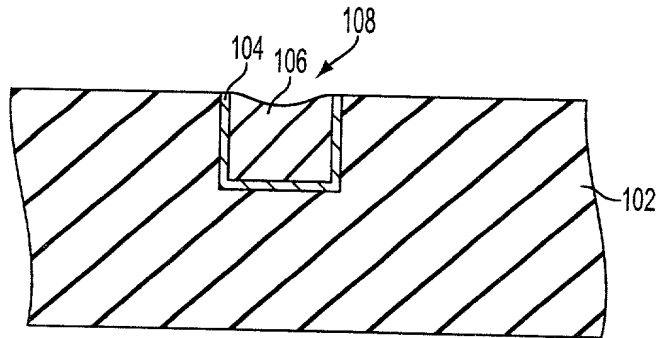


FIG. 1B
(PRIOR ART)

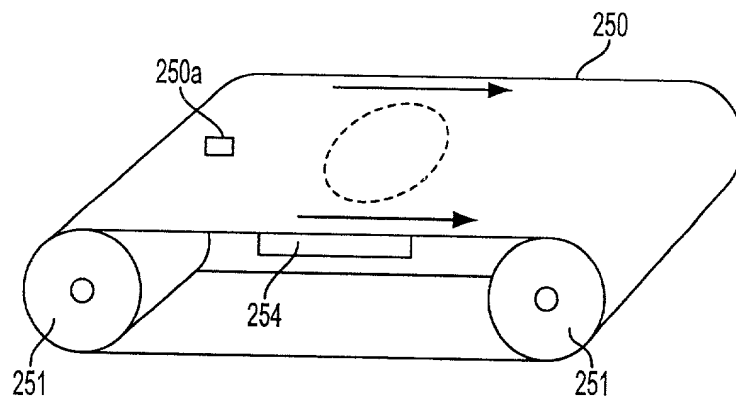


FIG. 2A

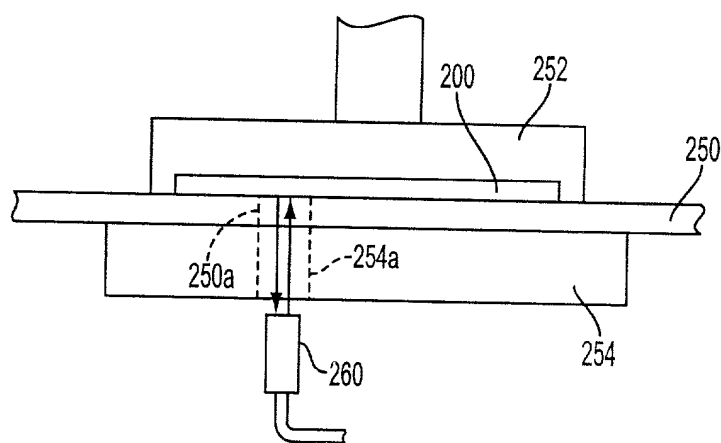


FIG. 2B

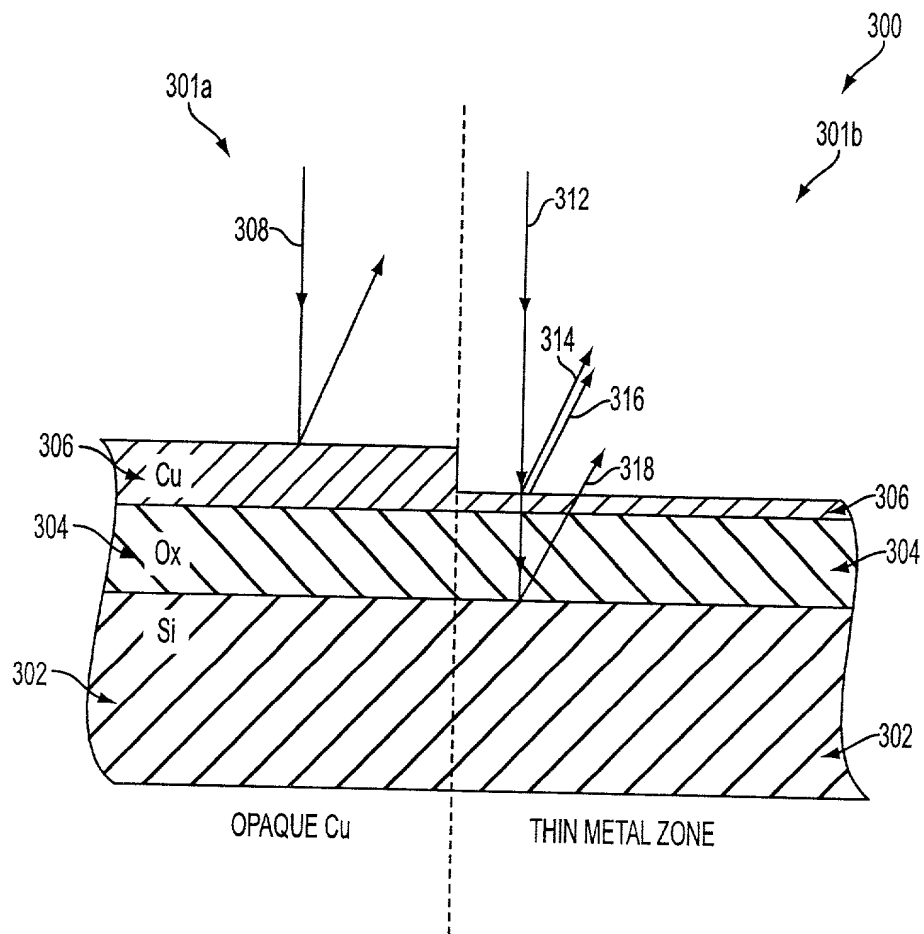


FIG. 3

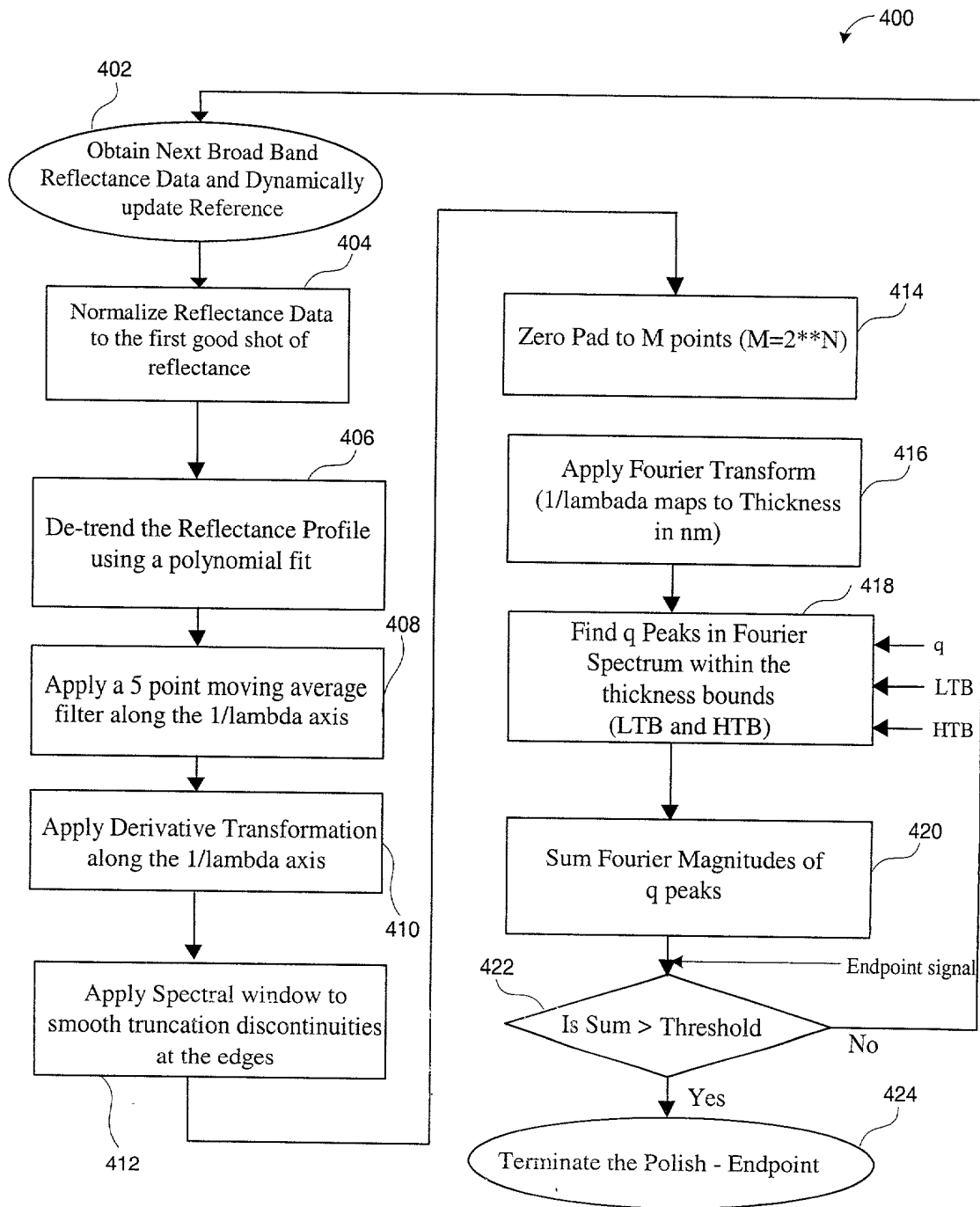


FIG. 4

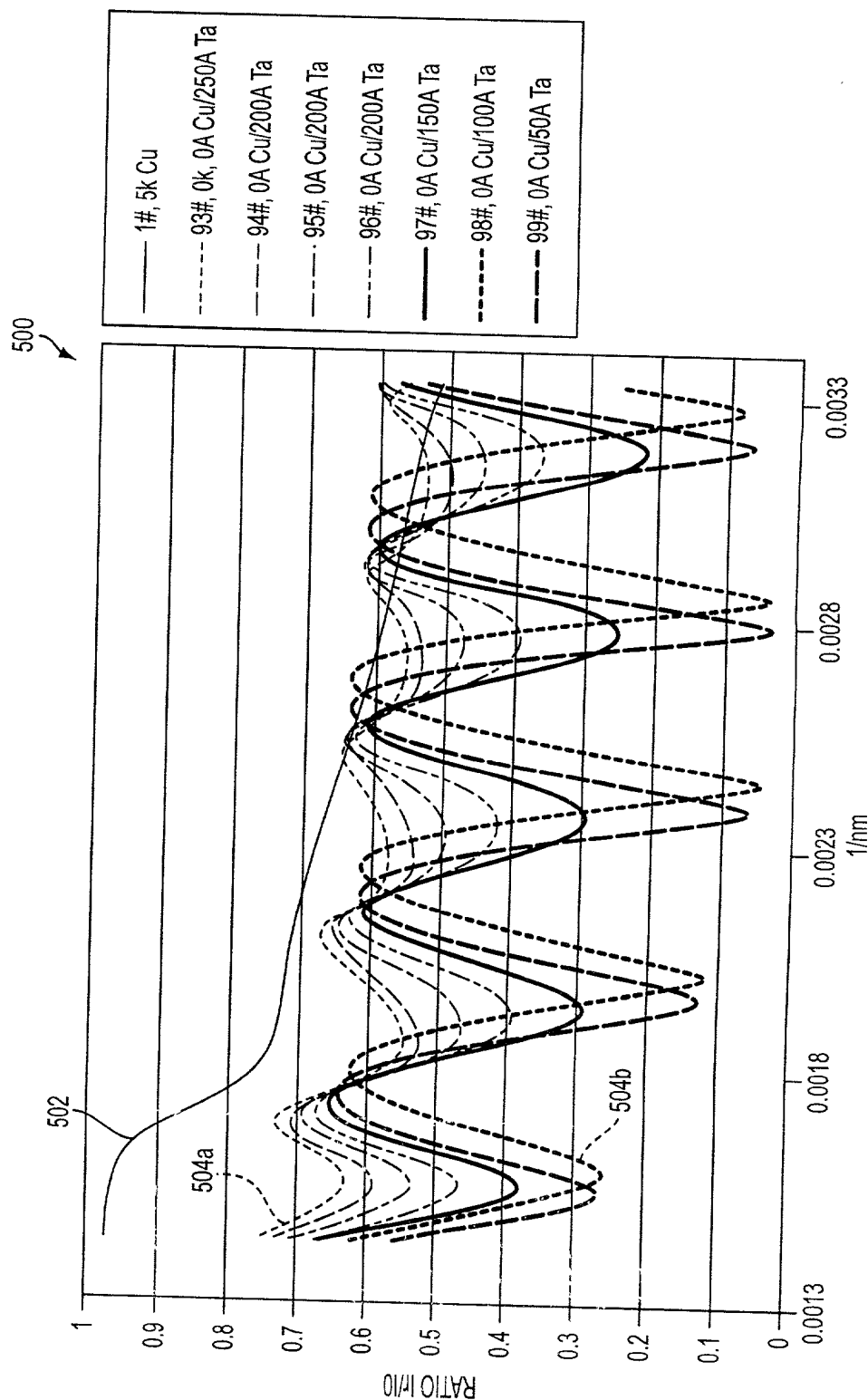


FIG. 5

FIG. 6 is a line graph showing the percentage drop from the first shot versus time steps for Cu-28. The graph displays multiple curves corresponding to different time steps, ranging from 0 to 125. The y-axis represents the percentage drop from the first shot, ranging from -60 to 10. The x-axis represents time steps, ranging from 0 to 125. The curves show a general downward trend, indicating a decrease in the percentage drop from the first shot over time. A legend on the right side of the graph lists the time steps: 300.30nm, 350.56nm, 400.45nm, 450.10nm, 499.57nm, 550.53nm, 600.53nm, 650.34nm, and 700.70nm. A label '600' with an arrow points to the right side of the graph area.

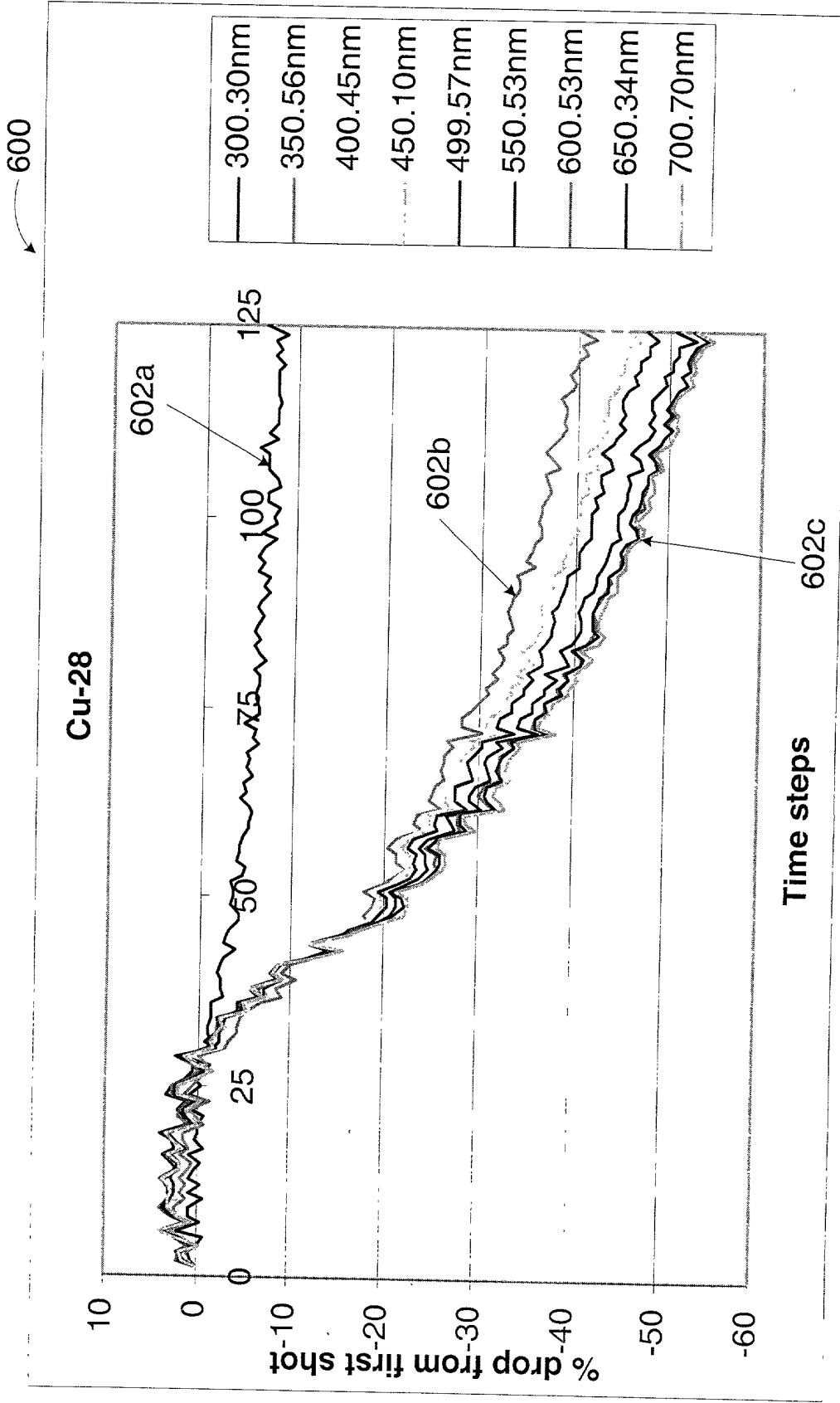


FIG. 6

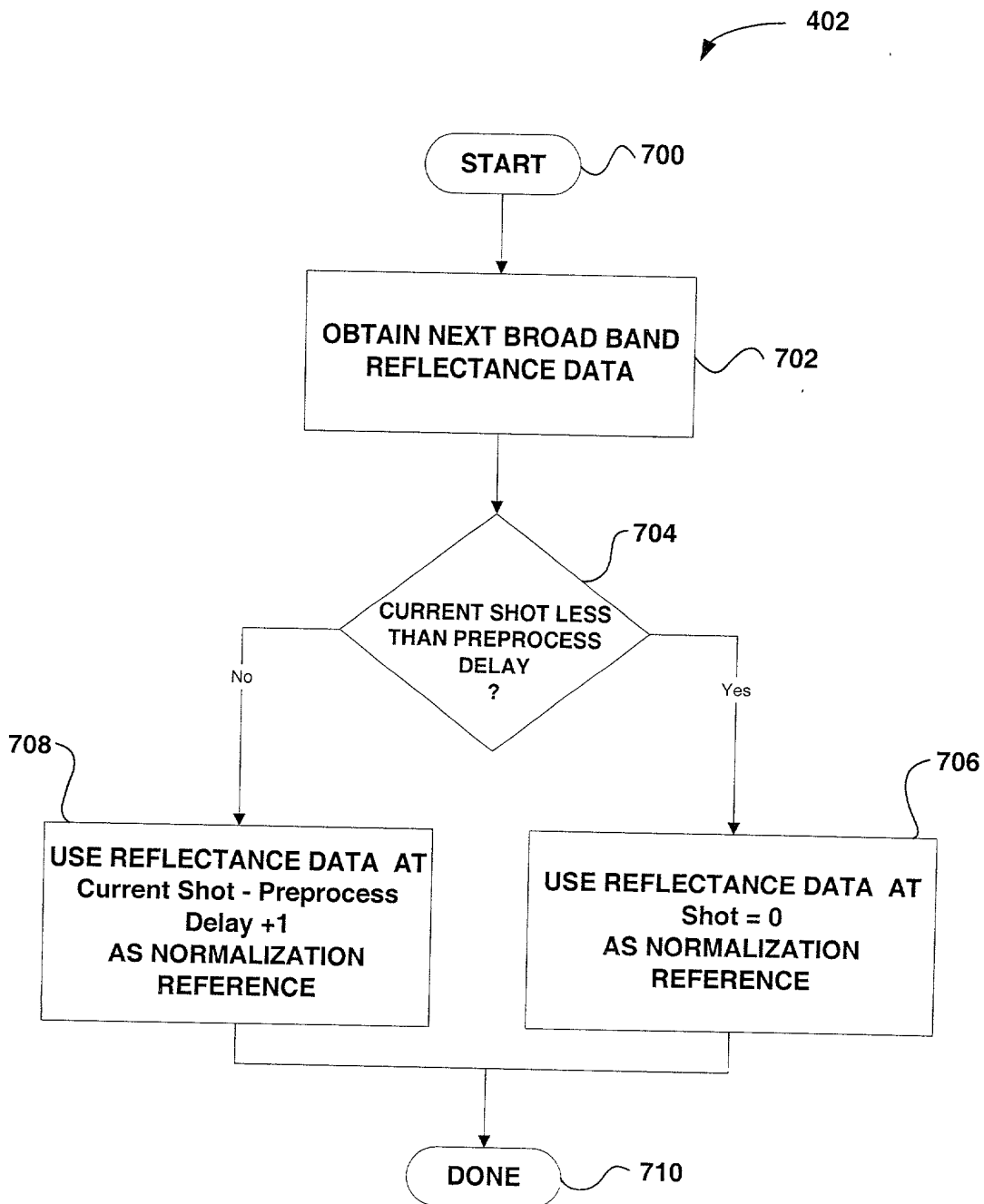


FIG. 7

FIG. 8A is a block diagram of a system 800 for processing a current spectrum. The system 800 includes a pre-processor 802a, a reference delay block 802b, a current spectrum block 802c, and a normalization block 802d. The pre-processor 802a receives a current spectrum and outputs a reference spectrum. The reference delay block 802b delays the reference spectrum by a pre-process delay. The current spectrum block 802c receives the current spectrum and outputs a current spectrum. The normalization block 802d normalizes the current spectrum using the reference spectrum. The system 800 also includes a time step input 801 and a time step output 803. The time step input 801 is connected to the pre-processor 802a and the reference delay block 802b. The time step output 803 is connected to the current spectrum block 802c and the normalization block 802d. The system 800 is configured to process a current spectrum at a current time step.

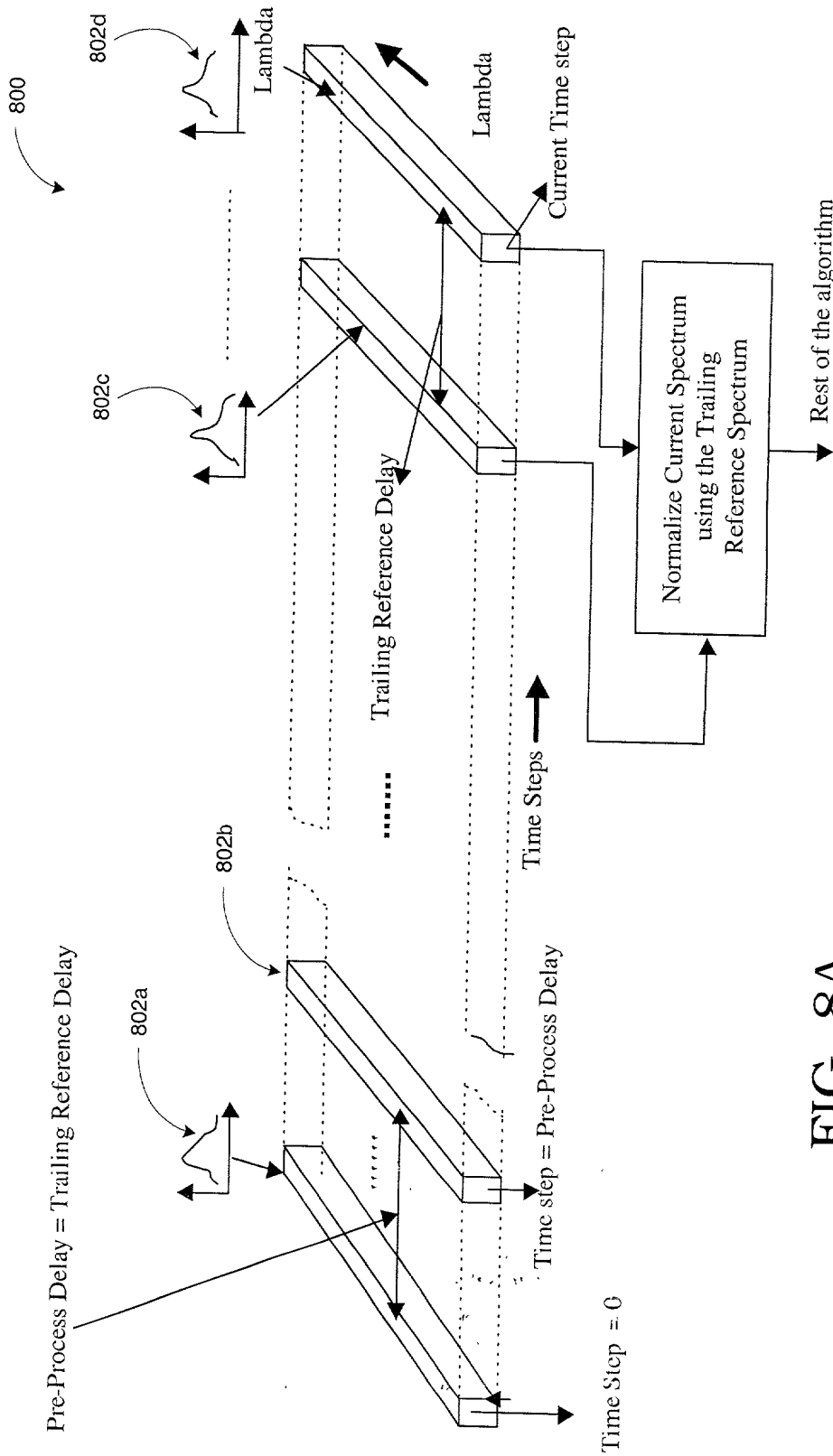
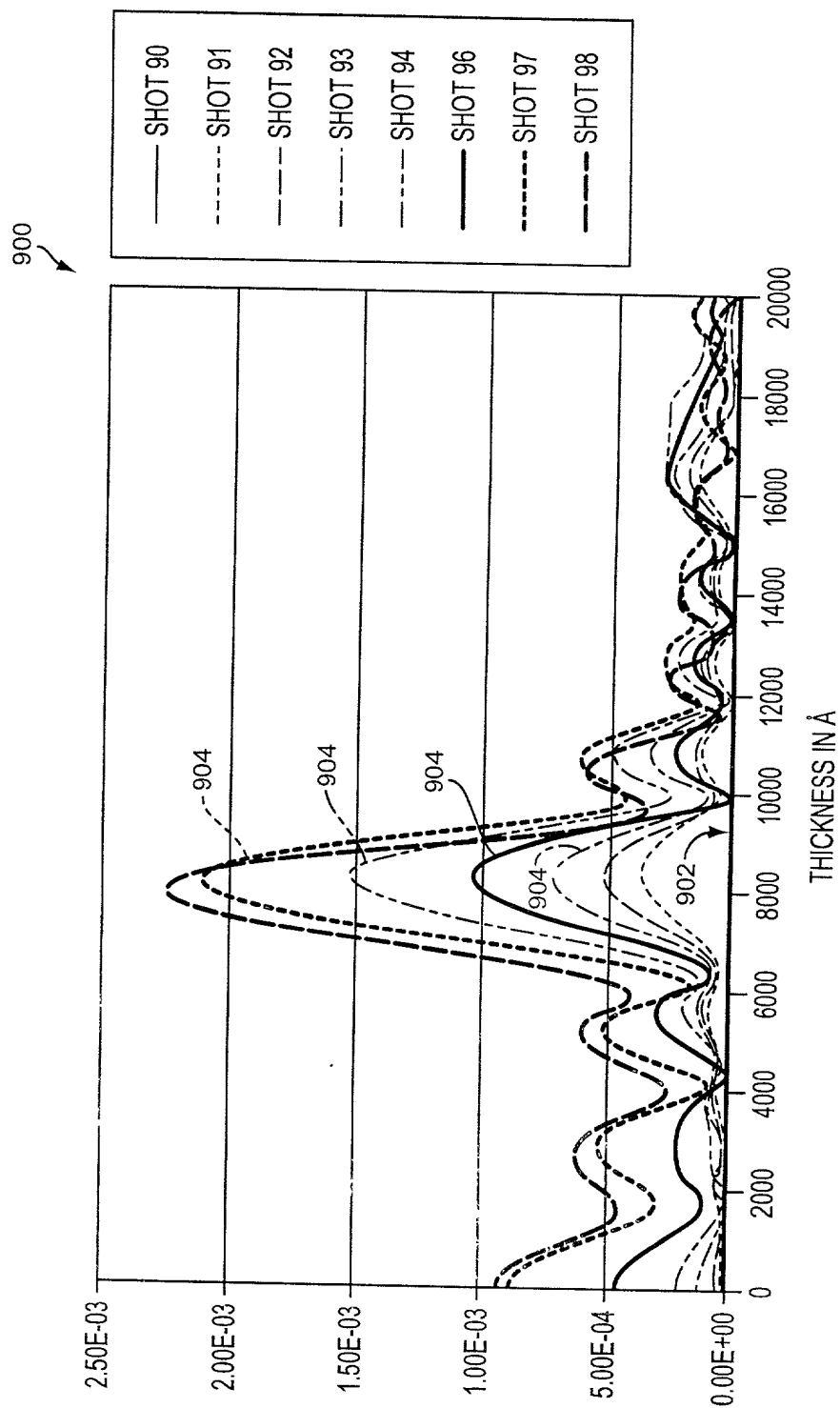


FIG. 8A



THICKNESS IN Å

FIG. 9

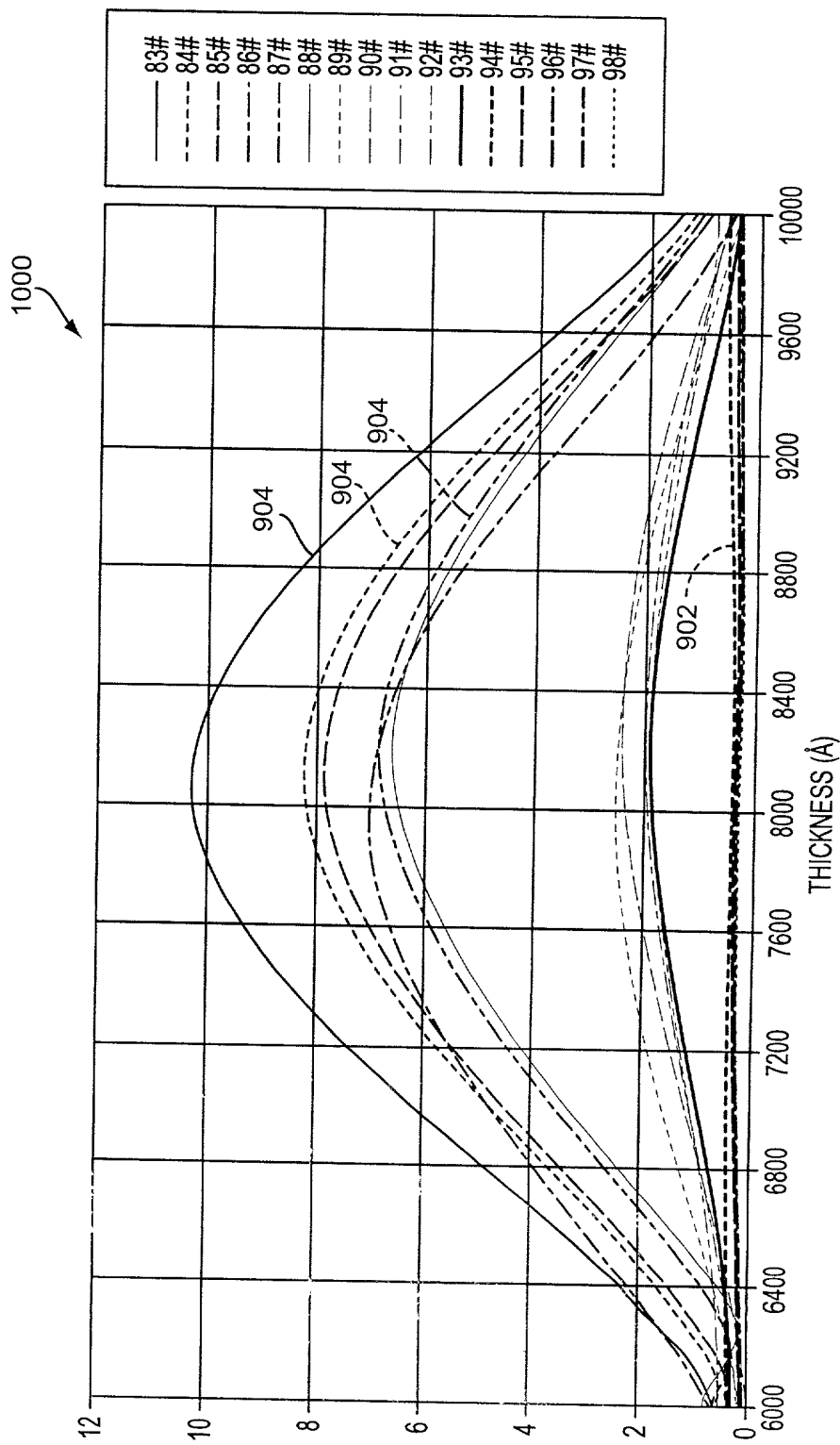


FIG. 10

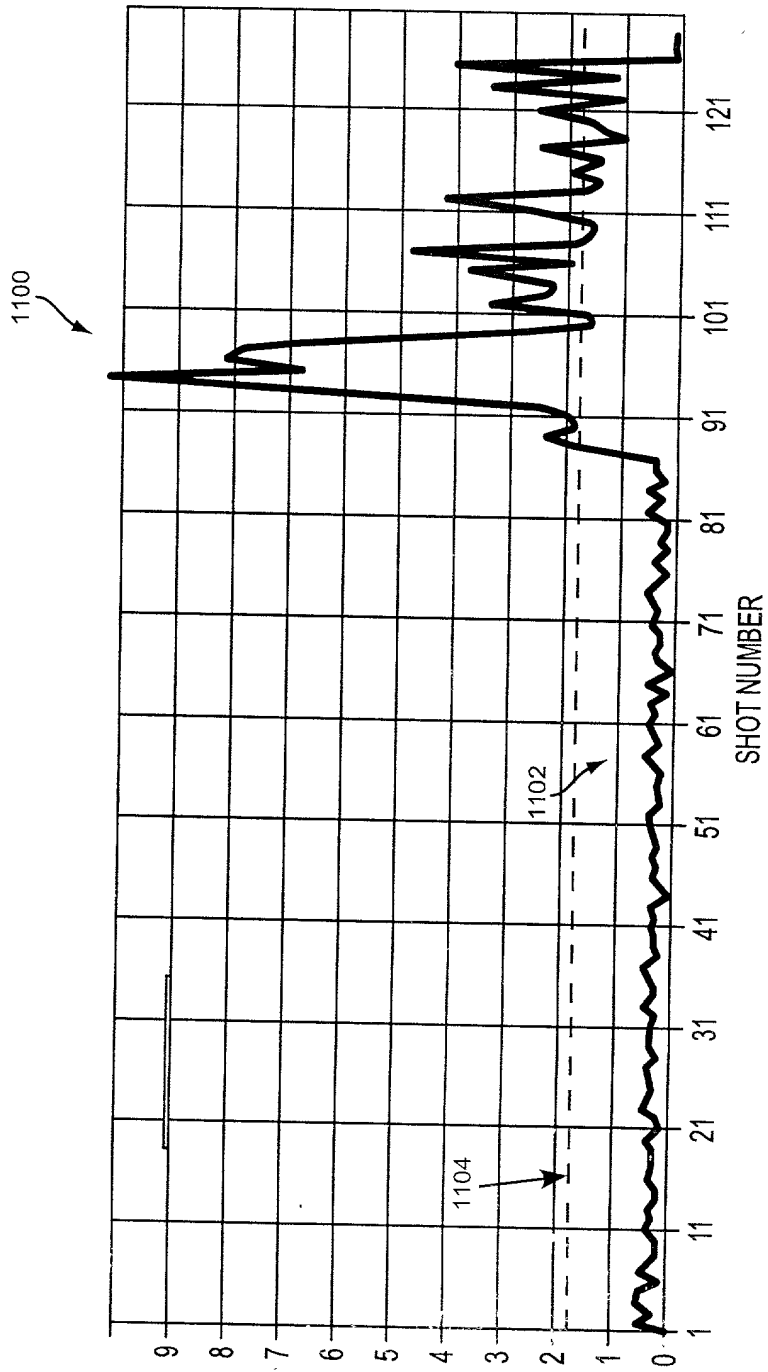


FIG. 11

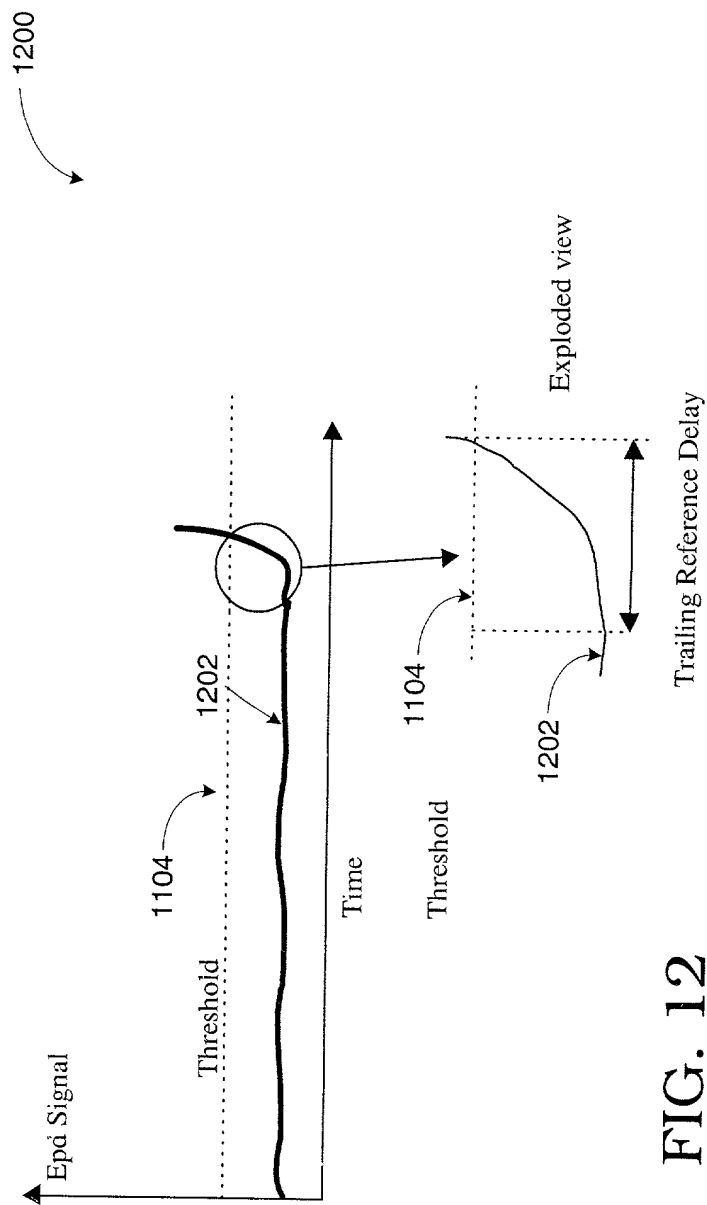
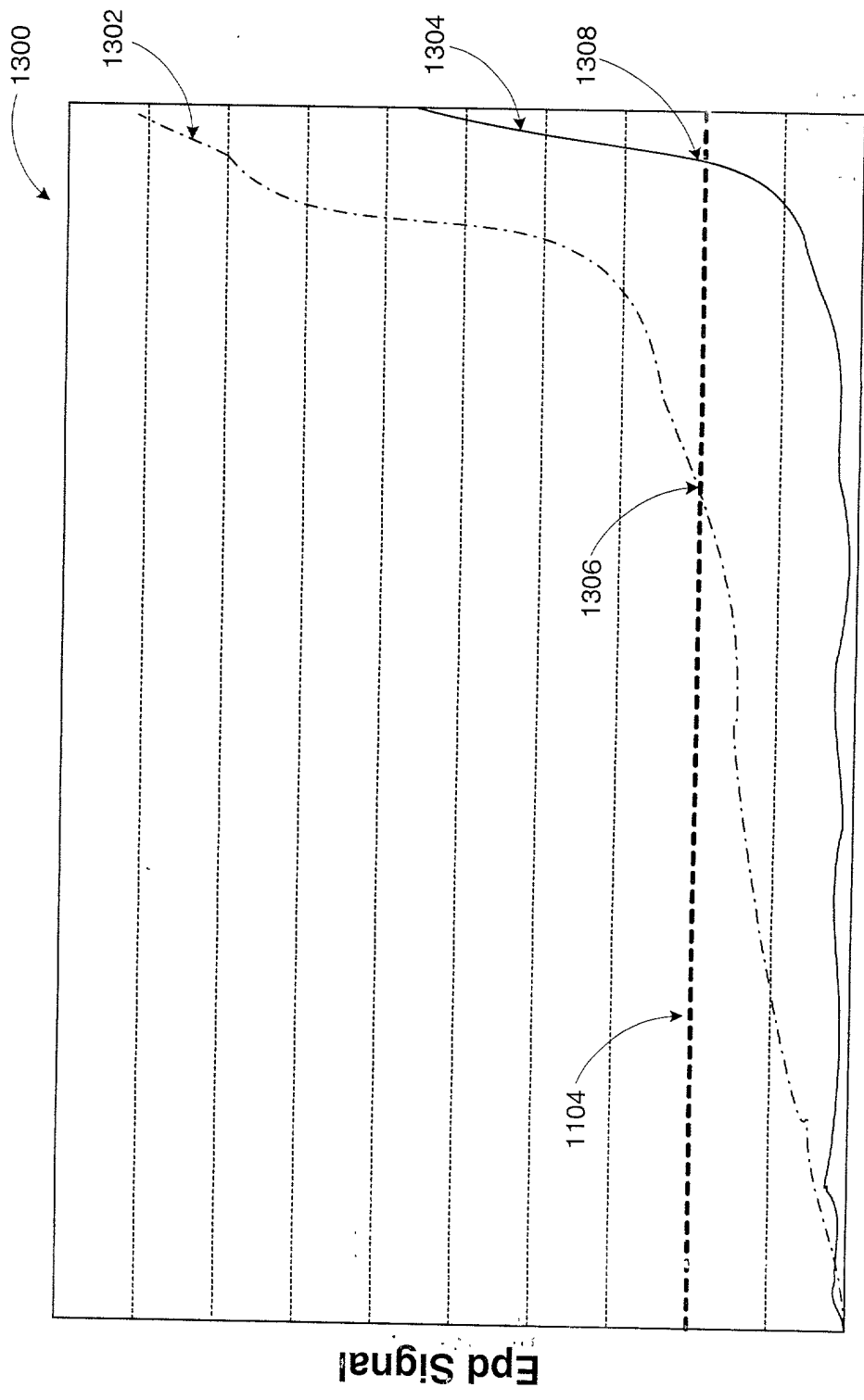


FIG. 12

FIG. 13 is a graph showing the relationship between Time and Epd Signal. The graph includes a solid line 1300, a dashed line 1302, a dotted line 1304, and a horizontal dashed line 1104. The solid line 1300 starts at a high value, decreases, and then rises sharply. The dashed line 1302 starts at a high value and decreases. The dotted line 1304 starts at a high value and decreases. The horizontal dashed line 1104 is a constant reference level.



Time

FIG. 13